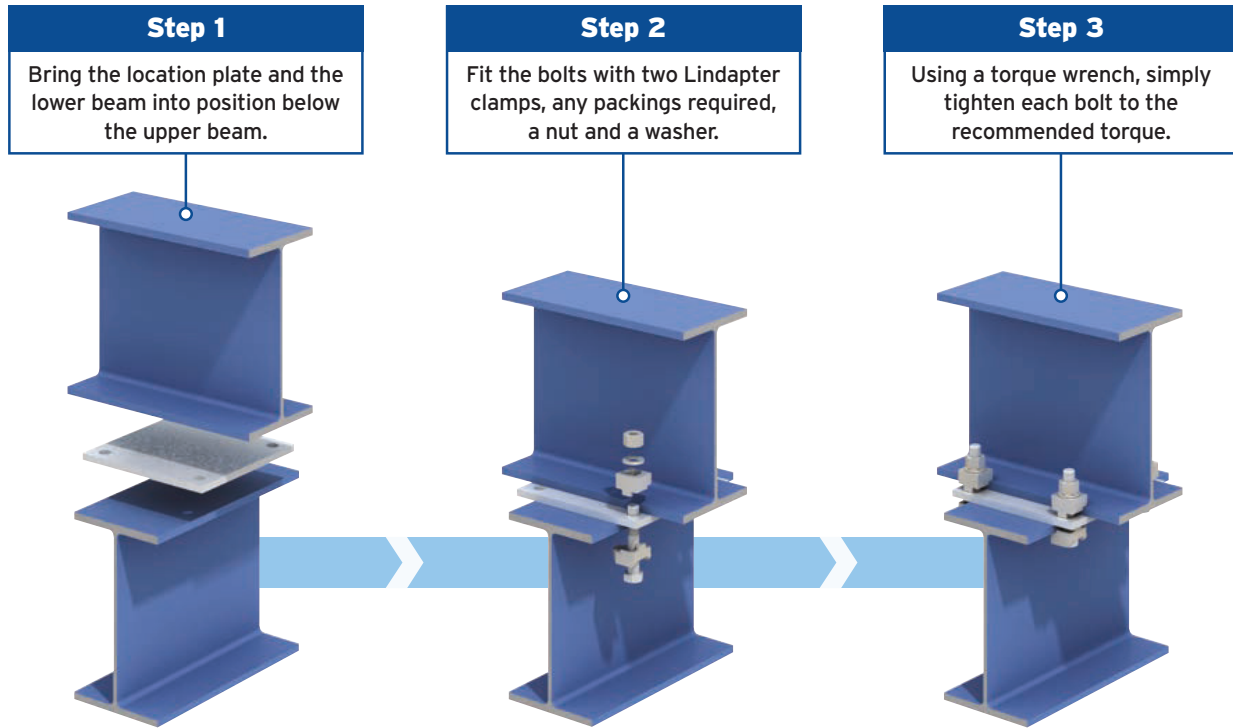


# Girder Clamp - The Connection Concept

Lindapter products provide a faster, cost-effective alternative to on-site drilling or welding and are designed to reduce installation time and labour costs. A high strength, permanent (or temporary) connection is quickly achieved by clamping two steel sections together.

## Quick and easy to install



### REASONS TO USE...



#### Save time and money

Clamping two steel sections together avoids time-consuming welding or conventional drilling and bolting.



#### High strength

Lindapter clamps are manufactured from high strength materials to resist high load requirements and harsh environments.



#### Adjustable

Quickly align steel sections by sliding the section into the correct position before tightening the Girder Clamp to complete the installation.



#### Safer connections

On-site drilling and welding is avoided, removing the need for hot work permits and encouraging safer site conditions.



#### Industry leading approvals

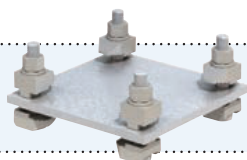
Lindapter has earned a reputation synonymous with safety and reliability, gaining multiple independent approvals. Further details can be found on **page 78**.



#### Free connection design

Lindapter's experienced Engineers can design a bespoke connection based on your specific requirements free of charge. See **page 79** for more details.

Turn to **page 6** to see the components of a Girder Clamp in more detail.



Watch installation videos of Girder Clamps and many more products at [www.Lindapter.com](http://www.Lindapter.com)



GIRDER CLAMPS  
 RAIL FIXINGS  
 LIFTING POINTS  
 HOLLO-BOLT  
 FLOOR FIXINGS  
 SUPPORT FIXINGS  
 DECKING FIXINGS

## Typical Configurations

The Girder Clamp represents a range of Lindapter products that are compatible with virtually any shape or size of steel section and can withstand loading conditions in a wide variety of applications, for example:

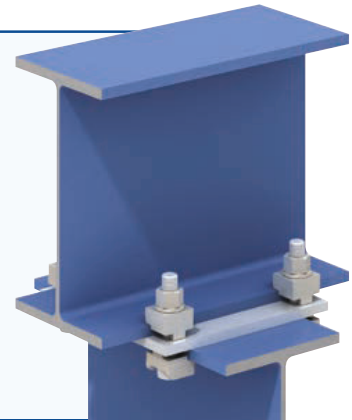
### STANDARD

#### Beam-to-beam (tensile loading) .....

The original configuration is designed to secure steel sections and resist tensile loading. It features a pre-drilled location plate that is placed between the beams to locate the four bolts. Each bolt has two Lindapter components to clamp the flange immediately above and below the plate.

For thick beams, a packing piece is required to raise the height of the clamps to enable the product to sit correctly on the beam.

See the components of a Girder Clamp in more detail on [page 6](#).



### HIGH SLIP RESISTANCE

#### Beam-to-column (slip resistance) .....

This configuration utilises a High Slip Resistance (HSR) clamp per bolt to achieve a secure connection to vertical columns.

An end plate is pre-fabricated to the section that will be joined to the column. The purpose of this plate is to locate the bolts and provide a fastening position for the Lindapter clamps.

Lindapter's range of HSR clamps can be found on [pages 12 - 17](#).



### ADJUSTABLE

#### Inclined beam-to-beam (combined loading) .....

A fabricated assembly, optimised with Lindapter's adjustable HSR clamps to resist both tensile loading and slip.

This solution adjusts to fit a wide range of flange thicknesses for added convenience. Lindapter can design and supply the entire assembly to suit individual applications.

Read more about the free connection design service on [page 6](#).



More examples of typical Lindapter configurations can be found on [pages 26 - 29](#). Alternatively, visit the website.

GIRDER CLAMPS

RAIL FIXINGS

LIFTING POINTS

HOLLO-BOLT

FLOOR FIXINGS

SUPPORT FIXINGS

DECKING FIXINGS

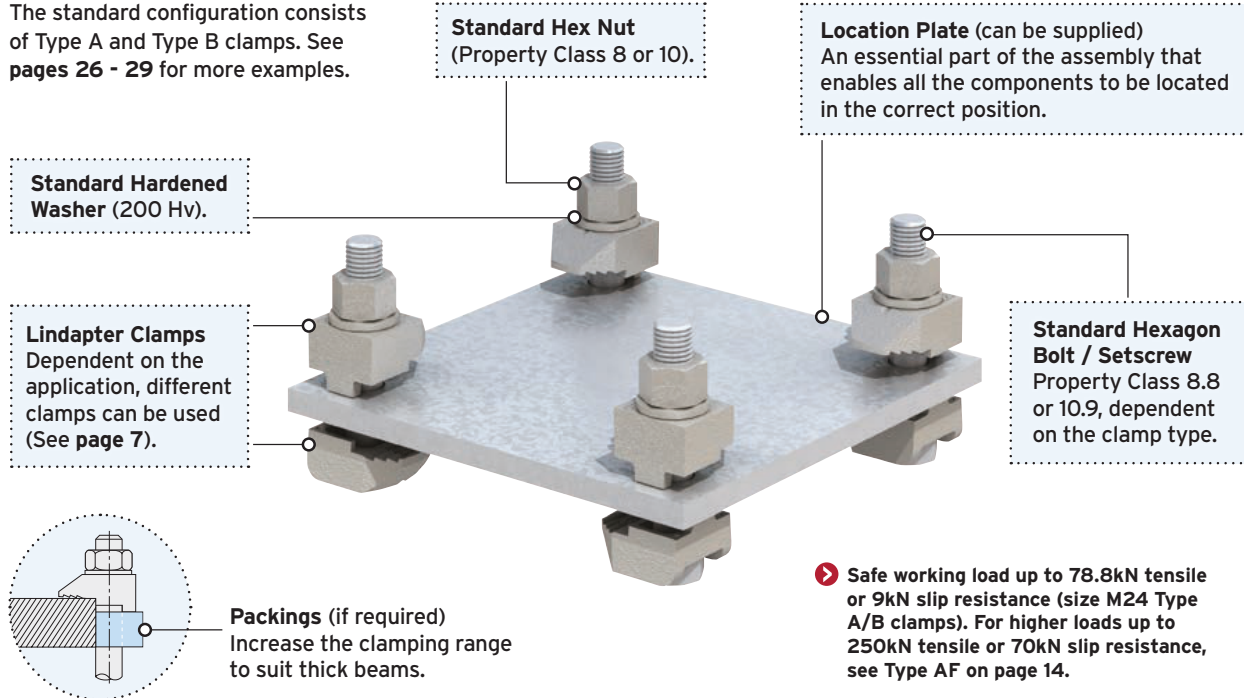
# Girder Clamp Configuration

A Girder Clamp is a connection system configured with components to suit specific application requirements, for example high tensile loading or high corrosion resistance. Take advantage of the free connection design service to find the best solution for your connection requirement.

GIRDER CLAMPS  
 RAIL FIXINGS  
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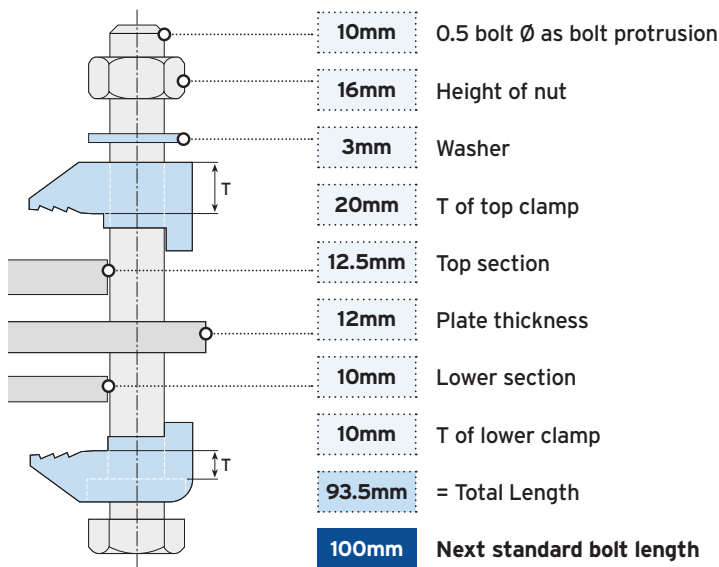
## Standard Lindapter Girder Clamp components

The standard configuration consists of Type A and Type B clamps. See pages 26 - 29 for more examples.



## Bolt Length Calculator

To calculate bolt length, simply add up all parts the bolt will go through. The next standard bolt length should be used, see the example below:












### Can we help? Try Lindapter's free connection design

For your next project, Lindapter's team of experienced Engineers can advise a solution for you free of charge, providing drawings in 2D or interactive 3D formats as well as CAD files that can be imported into all major software applications. Please turn to page 79 for more information.


## Product Comparison

The table below shows the various components that can be assembled in a Girder Clamp arrangement. Each product has specific properties, for example the Type AF heavy duty clamp can resist tensile loads up to 250kN when used with four bolts (property class 10.9) in a Girder Clamp assembly.

### Single Components

Product	Parallel Flanges	Tapered Flanges	Tensile	High Slip Resistance	Low Temp. Down to -60°C	Slotted Clearance Holes	Adjustable	Stainless Steel
<b>Type A</b> page 8 	✓	-	✓	-	-	-	-	-
<b>Type B</b> page 9 	✓	-	✓	-	-	-	-	-
<b>Type AAF</b> page 12 	✓	✓	✓	✓	✓	✓	✓	-
<b>Type AF</b> page 14 	✓	✓	✓	✓	-	✓	-	-
<b>Type CF</b> page 15 	✓	✓	✓	✓	-	-	✓	-
<b>Type LR</b> page 18 	✓	✓	✓	-	-	✓	✓	-
<b>Type D2</b> page 19 	✓	-	✓	-	-	-	✓	-
<b>Type LS</b> page 22 	✓	✓	✓	-	-	✓	✓	✓
<b>Type RC</b> page 24 	✓	-	✓	-	-	✓	-	-

### Other Clamp Systems (these products do not require a location plate)

Product	Parallel Flanges	Tapered Flanges	Tensile	High Slip Resistance	Low Temp. Down to -60°C	Slotted Clearance Holes	Adjustable	Stainless Steel
<b>Type F9</b> page 24 	✓	-	✓	-	-	-	✓	-
<b>Type FC</b> page 25 	✓	✓	✓	-	-	-	✓	-

### Also available

#### Lindapter Rail Fixings

See pages 30 - 33 for more information



#### Lindapter Lifting Points

See pages 34 - 37 for more information

